

FIG. 1 is a block diagram of a system for inserting and detecting electronic watermarks in MPEG streams. The system includes a Pre-Processing Section (10'), an Electronic Watermark Inserting Section (20'), an Electronic Watermark Detecting Section (30'), and a VLC/MUX Section (60').

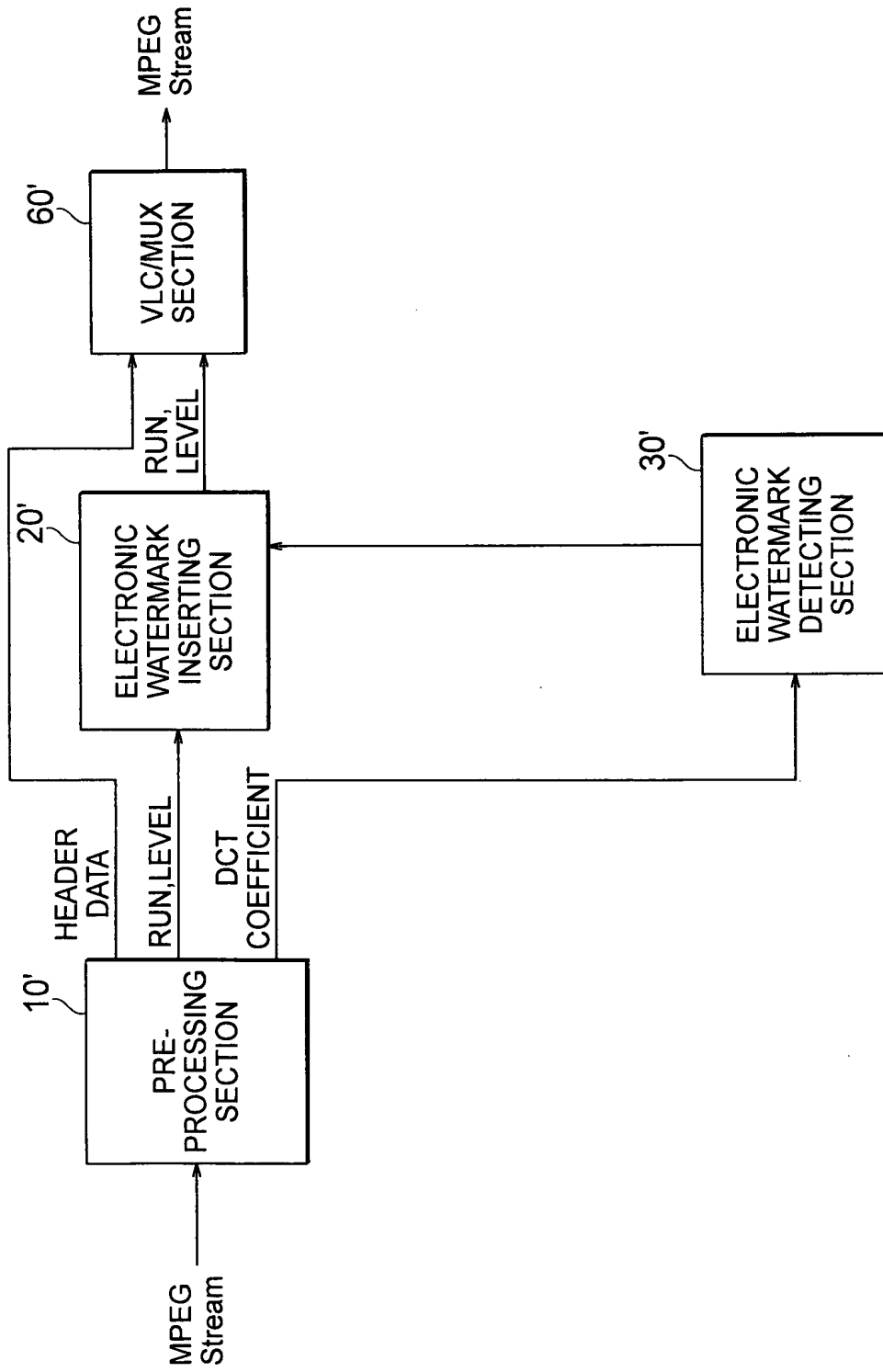


FIG. 1  
RELATED ART

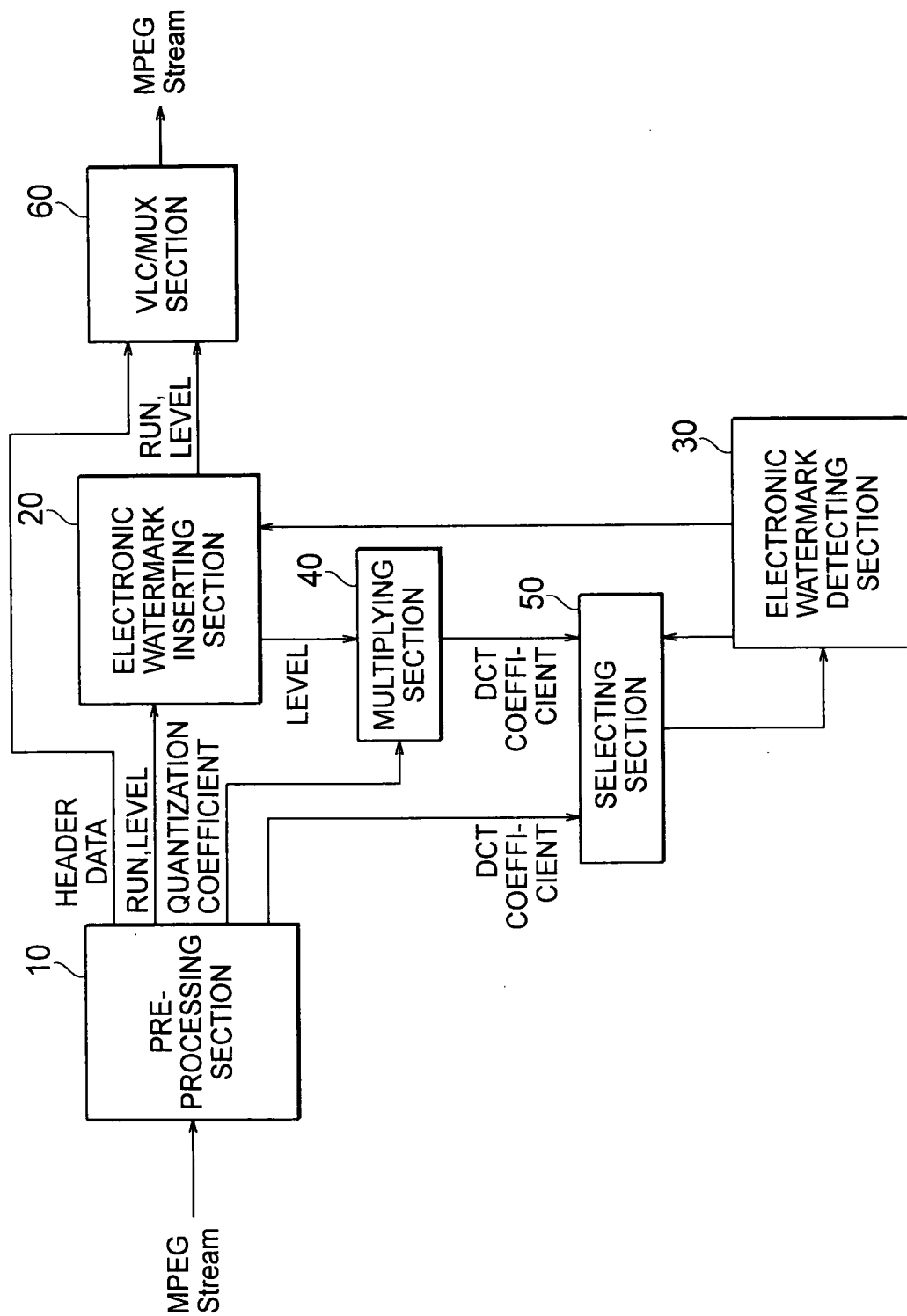


FIG. 2

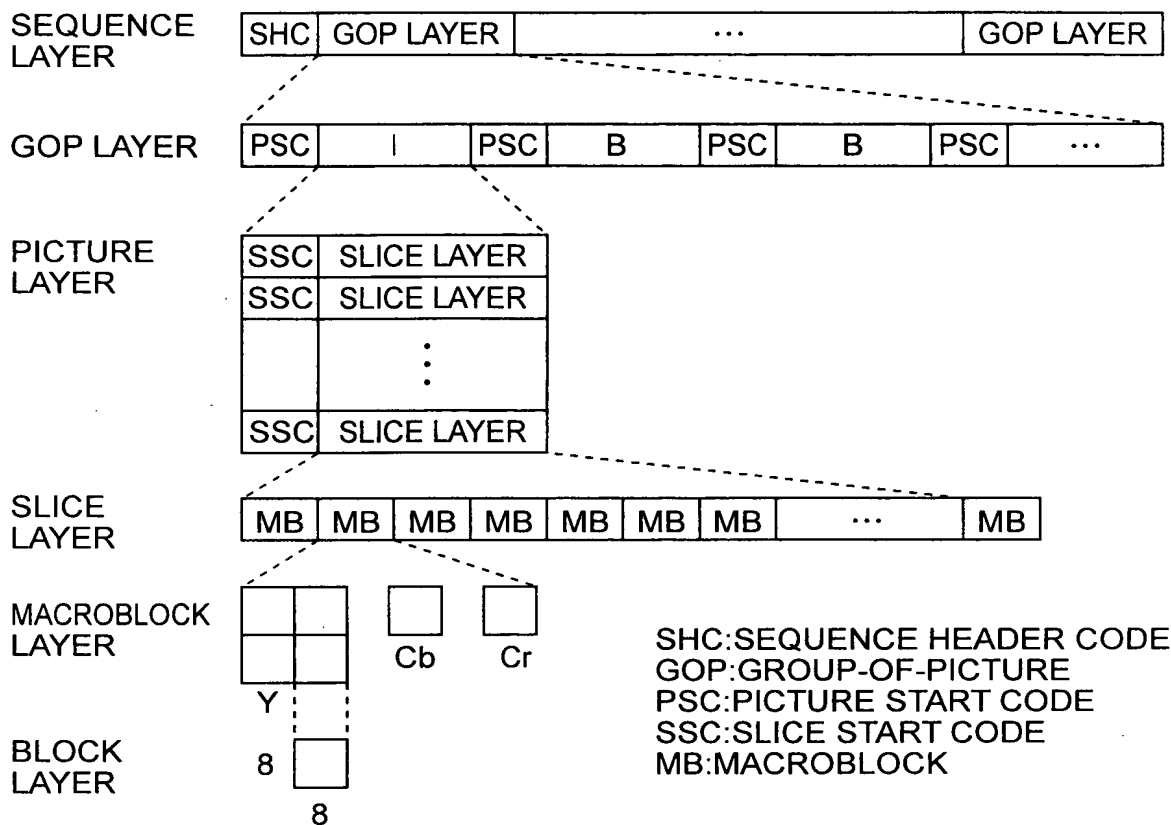


FIG. 3

HORIZONTAL SPATIAL  
FREQUENCY f<sub>H</sub>

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VERTICAL SPATIAL  
FREQUENCY f<sub>V</sub>

1	2	6	7	15	16	28	29
3	5	8	14	17	27	30	43
4	9	13	18	26	31	42	44
10	12	19	25	32	41	45	54
11	20	24	33	40	46	53	55
21	23	34	39	47	52	56	61
22	35	38	48	51	57	60	62
36	37	49	50	58	59	68	64

FIG. 4

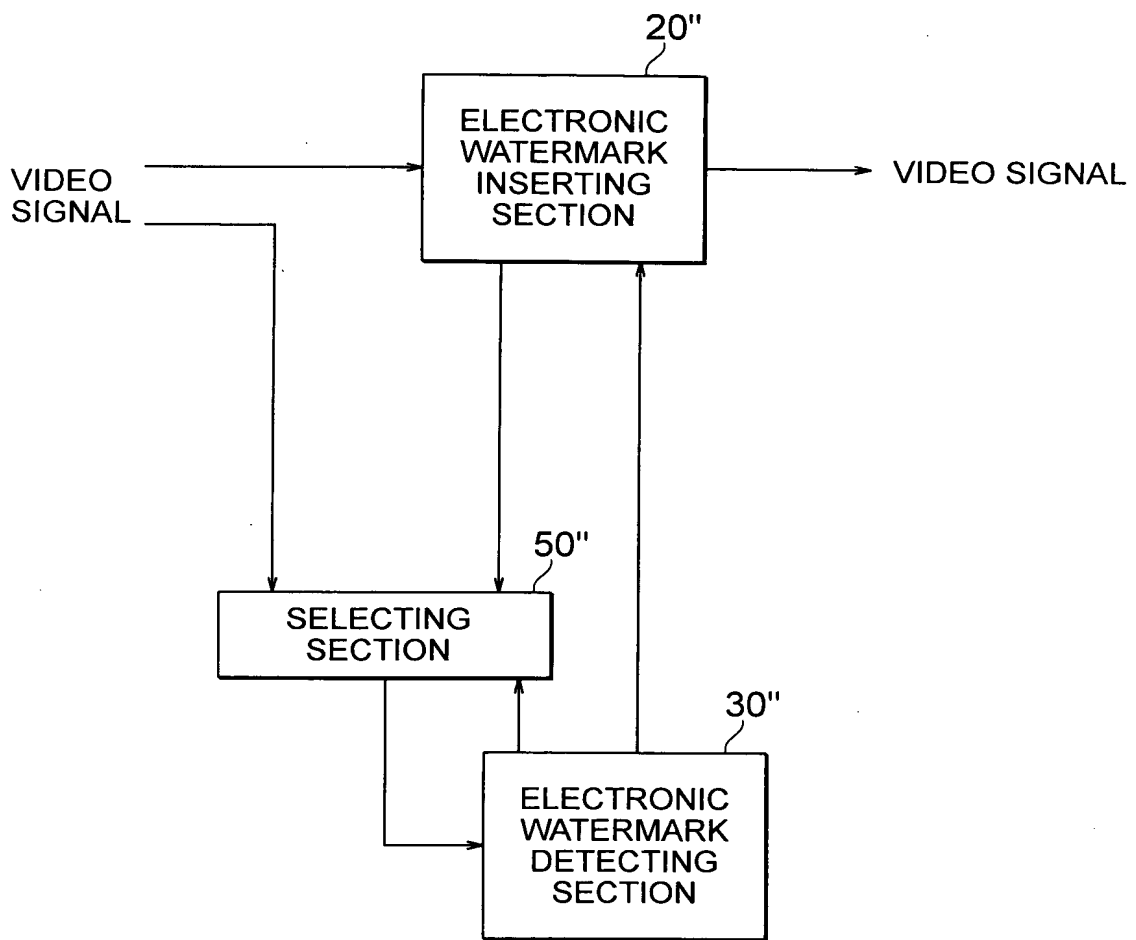


FIG. 5